

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Currently amended) A finless training projectile ~~adapted~~ disposed within a cartridge that is sized to be fired from a bore of a weapon tube, the projectile comprising:

- a body including a cylindrical portion;

- an obturator secured to the body;

- a nose having a smooth surface, secured to a forward section of the body;

- a finless tail secured to a rearward section of the body;

- a plurality of radially angled slots formed in the slotted tail flange, wherein the slotted tail flange provides a space within the cartridge for housing a propellant;

- wherein the cylindrical portion of the body includes an outer diameter that is ~~slightly~~ smaller than an inside diameter of the weapon tube;

- wherein ~~the body further comprises an~~ the obturator ~~that~~ provides friction fit between the weapon tube and the body of the projectile, in order to prevent forward thrust gases from escaping from the weapon tube;

- wherein the tail comprises a generally cylindrical tail piece and a slotted tail flange that is secured to the finless tail;

- wherein ~~the slotted tail flange comprises a~~ the plurality of radially angled slots in the slotted tail flange for achieving achieve spin after exit from the bore of the weapon tube and during flight of the training projectile, to compensate for aerodynamic or and mass asymmetries; and

wherein the nose provides increased mass to the nose, in order to move a center of gravity of the projectile further forward, and to allow ~~allows~~ a center of pressure of the projectile to remain in a constant rearward position relative to the centre of gravity during flight, so that a distance between the center of gravity and the center of pressure remains constant throughout a Mach number range encountered during flight, thereby providing improved flight stability over an extended range.

2. (Original) The training projectile of claim 1, wherein the body and the tail are dimensioned to be fired from any one of a smooth bore or a rifled cannon of 120 mm.

3. (Original) The training projectile of claim 1, wherein the body and the tail are dimensioned to be fired from any one of a smooth bore or a rifled cannon of 105 mm.

4. (Currently amended) The training projectile of claim 1, wherein the slotted tail flange comprises a range of approximately 2 to ~~8~~6 radially angled slots that are spaced evenly around a circumference of the slotted tail flange.

5. (Original) The training projectile of claim 1, wherein the radially angled slots have a width of approximately 18.1 mm.

6. (Original) The training projectile of claim 1, wherein the radially angled slots have a depth of approximately 10.1 mm.

7. (Previously presented) The training projectile of claim 1, wherein the tail comprises:

a cylindrical section; and
wherein the cylindrical section of the tail is connected to the
cylindrical portion of the body.

8. (Original) The training projectile of claim 1, wherein the radially angled slots define an angle of approximately 30 degrees with respect to an axis of the training projectile;

9. (Previously presented) The training projectile of claim 1, wherein the body comprises an inwardly tapering section;

10 - 12. (Canceled)

13. (Currently amended) The training projectile of claim 1, wherein the weapon tube is non-rifled; and

further comprises a stabilizer that is secured to the [[tails]] rear end of the projectile and that is formed of two integrally connected, coaxial[[,]] sections of different diameters, to ensure that the projectile spins when fired from the non-rifled weapon tube[[;]].

14. (Currently amended) The training projectile of claim 1, wherein the weapon tube includes a smooth inner surface; and

further comprises a stabilizer that is secured to the [[tails]] rear end of the projectile and that is formed of two integrally connected, coaxial[[,]] sections of different diameters, to ensure that the projectile spins when fired from the smooth inner surface of the weapon tube.